## SEQUENCE LISTING

- (1) GENERAL INFORMATION:
  - (i) APPLICANT: ANDERSON, Darrell R. HANNA, Nabil BRAMS, Peter
  - (ii) TITLE OF INVENTION: IDENTIFICATION OF UNIQUE BINDING INTERACTIONS BETWEEN CERTAIN ANTIBODIES AND THE HUMAN B7.1 AND B7.2 CO-STIMULATORY ANTIGENS
  - (iii) NUMBER OF SEQUENCES: 6
  - (iv) CORRESPONDENCE ADDRESS:
    - (A) ADDRESSEE: BURNS, DOANE, SWECKER & MATHIS
    - (B) STREET: P.O. Box 1404
    - (C) CITY: Alexandria
    - (D) STATE: Virginia
    - (E) COUNTRY: United States
    - (F) ZIP: 22313-1404
  - (v) COMPUTER READABLE FORM:
    - (A) MEDIUM TYPE: Floppy disk
    - (B) COMPUTER: IBM PC compatible
    - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
    - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
  - (vi) CURRENT APPLICATION DATA:
    - (A) APPLICATION NUMBER: US 08/746,361
    - (B) FILING DATE: 08-NOV-1996
    - (C) CLASSIFICATION:
  - (vii) PRIOR APPLICATION DATA:
    - (A) APPLICATION NUMBER: US 08/487,550 (B) FILING DATE: 07-JUN-1995
  - (viii) ATTORNEY/AGENT INFORMATION:
    - (A) NAME: Teskin, Robin L.
    - (B) REGISTRATION NUMBER: 35,030
    - (C) REFERENCE/DOCKET NUMBER: 012712-256
    - (ix) TELECOMMUNICATION INFORMATION:
      - (A) TELEPHONE: (703) 836-6620
      - (B) TELEFAX: (703) 836-2021
- (2) INFORMATION FOR SEQ ID NO:1:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 705 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: DNA (genomic)
  - (ix) FEATURE:
    - (A) NAME/KEY: CDS
    - (B) LOCATION: 1..705
  - (xi) SEOUENCE DESCRIPTION: SEO ID NO:1:

ATG AGG GTC CCC GCT CAG CTC CTG GGG CTC CTG CTG CTC TGG CTC CCA Met Arg Val Pro Ala Gln Leu Leu Gly Leu Leu Leu Leu Trp Leu Pro 10 15 1

								TCA Ser	96
								AGT Ser	144
								CCT Pro	192
								GAG Glu	240
								AAC Asn 95	288
								GAC Asp	336
								GTC Val	384
								TCC Ser	432
								AGT Ser	480
								AGC Ser 175	528
								AAC Asn	576
-								TGG Trp	624
								ACC Thr	672
			CCT Pro 230			TGA * 235			705

## (2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1431 base pairs
    (B) TYPE: nucleic acid
    (C) STRANDEDNESS: single
    (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:
(A) NAME/KEY: CDS
(B) LOCATION: 1..1431

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

			TTC Phe						48
			CTG Leu						96
			CGC Arg						144
								GGA Gly	192
			ATT Ile						240
			CGA Arg						288
			TTG Leu						336
			GGC Gly						384
			GTC Val 370						432
			GGC Gly						480
			GGC Gly						528
			GTG Val						576
			TTC Phe						624
			GTG Val 450						672
			GTG Val						720

		CCC Pro						768
		GAA Glu						816
		GAC Asp						864
		GAC Asp						912
		GGC Gly 545						960
		AAC Asn					 	 1008
		TGG Trp						1056
		CCA Pro						1104
		GAA Glu						1152
		AAC Asn 625						1200
		ATC Ile						1248
		ACC Thr						1296
		AAG Lys						1344
		TGC Cys						1392
		CTC Leu 705				TGA *		1431

## (2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:
   (A) LENGTH: 720 base pairs
   (B) TYPE: nucleic acid
   (C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:

(A) NAME/KEY: CDS
(B) LOCATION: 1..720

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

AGC Ser								48
TCC Ser 495								96
ACA Thr								144
AAA Lys								192
GGC Gly								240
GGG Gly								288
CTG Leu 575								336
GGG Gly								384
GAA Glu								432
TCT Ser								480
 AAT Asn								528
GCC Ala 655								576
AAG Lys								624
GAC Asp								672

					GTC Val								TGA *	720
(2)		) SE( (1 (1	QUENCA) LI B) T	CE CI ENGTI YPE: FRANI	SEQ HARAGH: 14 nuc: DEDNI OGY:	CTER: 437 l leic ESS:	ISTIC pase acic sing	CS: pai:	rs					
	(ix)	) FE <i>I</i> ( <i>I</i>	ATURI A) NI B) L(	E: AME/I OCAT:	YPE: KEY: ION: ESCR:	CDS	1437			D:4:				
					ATC Ile									48
					CAA Gln									96
					AGA Arg									144
					TAT Tyr									192
					ATT Ile 310									240
					AAA Lys									288
					CTG Leu									336
					ACT Thr									384
					TAC Tyr									432
					AGC Ser 390									480
					ACC Thr									528

				CCC Pro										576
				GTG Val										624
				AGC Ser										672
				ATC Ile 470										720
				GCA Ala										768
				GCA Ala										816
				CCC Pro										864
				GTG Val									 	912
				GTG Val 550										960
				CAG Gln										1008
				CAG Gln										1056
	Ser	Asn	Lys	GCC Ala	Leu	Pro	Ala	Pro	Ile	Glu	Lys	Thr		1104
				CCC Pro										1152
				ACC Thr 630										1200
				AGC Ser										1248
				TAC Tyr										1296
				TAC Tyr										1344

•

					TTC Phe								1392
					AAG Lys 710								1437
(2)	INF	ORMA'	TION	FOR	SEQ	ID 1	NO : 5	:					
	(i	() () ()	A) L: B) T' C) S'	ENGT YPE : TRAN	HARAC H: 7: nuc: DEDNI OGY:	11 ba leic ESS:	ase p acio sino	pair: d	s				
	(ii	) MO	LECU:	LE T	YPE:	DNA	(gei	nomi	c)				
	(ix	()		AME/I	KEY:		711						
	(xi	) SE	QUEN	CE DI	ESCR:	IPTI	ON: S	SEQ :	ID N	0:5:			
					CAG Gln 485								48
					TCT Ser								96
					GTC Val								144
					CTA Leu								192
					TAT Tyr								240
					TCC Ser 565								288
					GAG Glu								336
					GCT Ala								384
					AAG Lys								432
					CAA Gln								480

AGT GAC TTC TAC CCG GGA GCC GTG ACA GTG GCC TGG AAG GCA GAT AGC Ser Asp Phe Tyr Pro Gly Ala Val Thr Val Ala Trp Lys Ala Asp Ser 640 645 650	528
AGC CCC GTC AAG GCG GGA GTG GAG ACC ACC ACA CCC TCC AAA CAA AGC Ser Pro Val Lys Ala Gly Val Glu Thr Thr Pro Ser Lys Gln Ser 660 665 670	576
AAC AAC AAG TAC GCG GCC AGC AGC TAC CTG AGC CTG ACG CCT GAG CAG Asn Asn Lys Tyr Ala Ala Ser Ser Tyr Leu Ser Leu Thr Pro Glu Gln 675 680 685	624
TGG AAG TCC CAC AGA AGC TAC AGC TGC CAG GTC ACG CAT GAA GGG AGC Trp Lys Ser His Arg Ser Tyr Ser Cys Gln Val Thr His Glu Gly Ser 690 695 700	672
ACC GTG GAG AAG ACA GTG GCC CCT ACA GAA TGT TCA TGA Thr Val Glu Lys Thr Val Ala Pro Thr Glu Cys Ser * 705 710 715	711
(2) INFORMATION FOR SEQ ID NO:6:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 1431 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: DNA (genomic)	
(ix) FEATURE: (A) NAME/KEY: CDS	
(B) LOCATION: 11431	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:	
	48
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:  ATG AAA CAC CTG TGG TTC TTC CTC CTC CTG GTG GCA GCT CCC AGA TGG Met Lys His Leu Trp Phe Phe Leu Leu Val Ala Ala Pro Arg Trp	48 96
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:  ATG AAA CAC CTG TGG TTC TTC CTC CTC CTG GTG GCA GCT CCC AGA TGG Met Lys His Leu Trp Phe Phe Leu Leu Val Ala Ala Pro Arg Trp 240 245 250  GTC CTG TCC CAG GTG CAG CTG CAG GAG TCG GGC CCA GGA CTG GTG AAG Val Leu Ser Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:  ATG AAA CAC CTG TGG TTC TTC CTC CTC CTG GTG GCA GCT CCC AGA TGG Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp 240  GTC CTG TCC CAG GTG CAG CTG CAG GAG TCG GGC CCA GGA CTG GTG AAG Val Leu Ser Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys 255  CCT TCG GAG ACC CTG TCC CTC ACC TGC GCT GTC TCT GGT GGC TCC ATC Pro Ser Glu Thr Leu Ser Leu Thr Cys Ala Val Ser Gly Gly Ser Ile	96
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:  ATG AAA CAC CTG TGG TTC TTC CTC CTC CTG GTG GCA GCT CCC AGA TGG Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp 240  GTC CTG TCC CAG GTG CAG CTG CAG GAG TCG GGC CCA GGA CTG GTG AAG Val Leu Ser Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys 255  CCT TCG GAG ACC CTG TCC CTC ACC TGC GCT GTC TCT GGT GGC TCC ATC Pro Ser Glu Thr Leu Ser Leu Thr Cys Ala Val Ser Gly Gly Ser Ile 270  AGC GGT GGT TAT GGC TGG GGC TGG ATC CGC CAG CCC CCA GGG AAG GGG Ser Gly Gly Tyr Gly Trp Gly Trp Ile Arg Gln Pro Pro Gly Lys Gly	96 144
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:  ATG AAA CAC CTG TGG TTC TTC CTC CTC CTG GTG GCA GCT CCC AGA TGG Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp 240	96 144 192

· 9

			AGA Arg 355										384
			GAT Asp										432
			AAG Lys										480
			GGG Gly										528
			CCG Pro										576
			ACC Thr 435										624
			GTG Val										672
			AAC Asn										720
			CCC Pro										768
			GAA Glu										816
			GAC Asp 515										864
	Val	Val	GAC Asp	Val	Ser	His	Glu	Asp	${\tt Pro}$	Glu	Val	Phe	912
			GGC Gly										960
			AAC Asn										1008
			TGG Trp										1056
			CCA Pro 595										1104
			GAA Glu										1152

· '

			,							
				_	72	-				
 	 ACC Thr 625	 		 			 	 		1200
	 AGC Ser	 		 			 	 		1248
	 TAC Tyr	 		 			 	 		1296
	TAC Tyr					_	 	 		1344
	TTC Phe									1392
	AAG Lys 705						TGA *		;	1431

:· ·